

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01S5/30 G01S11/14 G01S5/18 G01S5/20 G01S5/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/052821 A1 (HOLT BRIAN) 20 March 2003 (2003-03-20) paragraphs '0032! - '0056!; figure 3	1-4, 10-15
X	US 5 321 668 A (ROUQUETTE ROBERT E) 14 June 1994 (1994-06-14) column 18, line 56 - column 19, line 9; figure 13	1,13-15
X	WO 02/096148 A (GREGO GIORGIO ; TELECOM ITALIA LAB S P A (IT)) 28 November 2002 (2002-11-28) page 13, column 20 - page 14, column 16; figures 1-3	1,13-15



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

26 July 2004

Date of mailing of the international search report

02/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fanjul Caudevilla, J

INTERNATIONAL SEARCH REPORT

Serial Application No.
/IB2004/050465

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 243 322 B1 (ZAKARAUSKAS PIERRE) 5 June 2001 (2001-06-05) column 3, line 1 - column 4, line 50; figures 2-4	1,13-15
A	EP 1 022 583 A (AT & T LAB CAMBRIDGE LTD) 26 July 2000 (2000-07-26) paragraphs '0025! - '0035!; figure 1	6,7

INTERNATIONAL SEARCH REPORT

International Application No
/IB2004/050465

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003052821 A1	20-03-2003	US 2002196186 A1 CA 2450810 A1 EP 1407288 A2 WO 03001686 A2	26-12-2002 03-01-2003 14-04-2004 03-01-2003
US 5321668 A	14-06-1994	SG 159794 G US 5031159 A US 5142507 A US 5214617 A AU 644843 B2 AU 7107991 A EP 0447783 A2 GB 2241330 A ,B JP 3151466 B2 JP 4215090 A CA 2036124 A1 DE 69125747 D1 DE 69125747 T2 FI 910838 A NO 910659 A NZ 237024 A	17-03-1995 09-07-1991 25-08-1992 25-05-1993 23-12-1993 22-08-1991 25-09-1991 28-08-1991 03-04-2001 05-08-1992 22-08-1991 28-05-1997 23-10-1997 22-08-1991 22-08-1991 26-05-1993
WO 02096148 A	28-11-2002	IT T020010486 A1 WO 02096148 A1	25-11-2002 28-11-2002
US 6243322 B1	05-06-2001	AU 1443901 A CA 2390287 A1 EP 1226454 A1 JP 2003514412 T WO 0135118 A1	06-06-2001 17-05-2001 31-07-2002 15-04-2003 17-05-2001
EP 1022583 A	26-07-2000	EP 1022583 A2 GB 2345967 A ,B US 6317386 B1	26-07-2000 26-07-2000 13-11-2001